

AFTeco

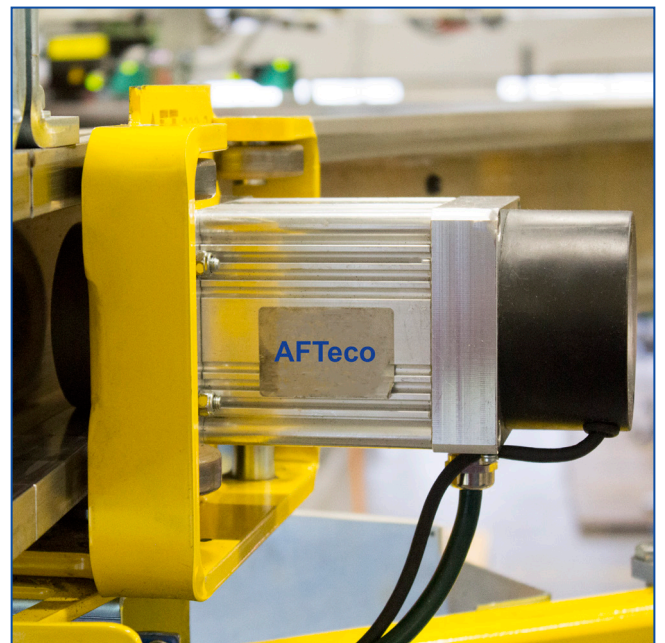
Saving Energy

Missing energy efficiency and compactness of the motors are things that are common with EMS motors. But we can help with that. Our new drive concept AFTeco will revolutionise your EMS system.

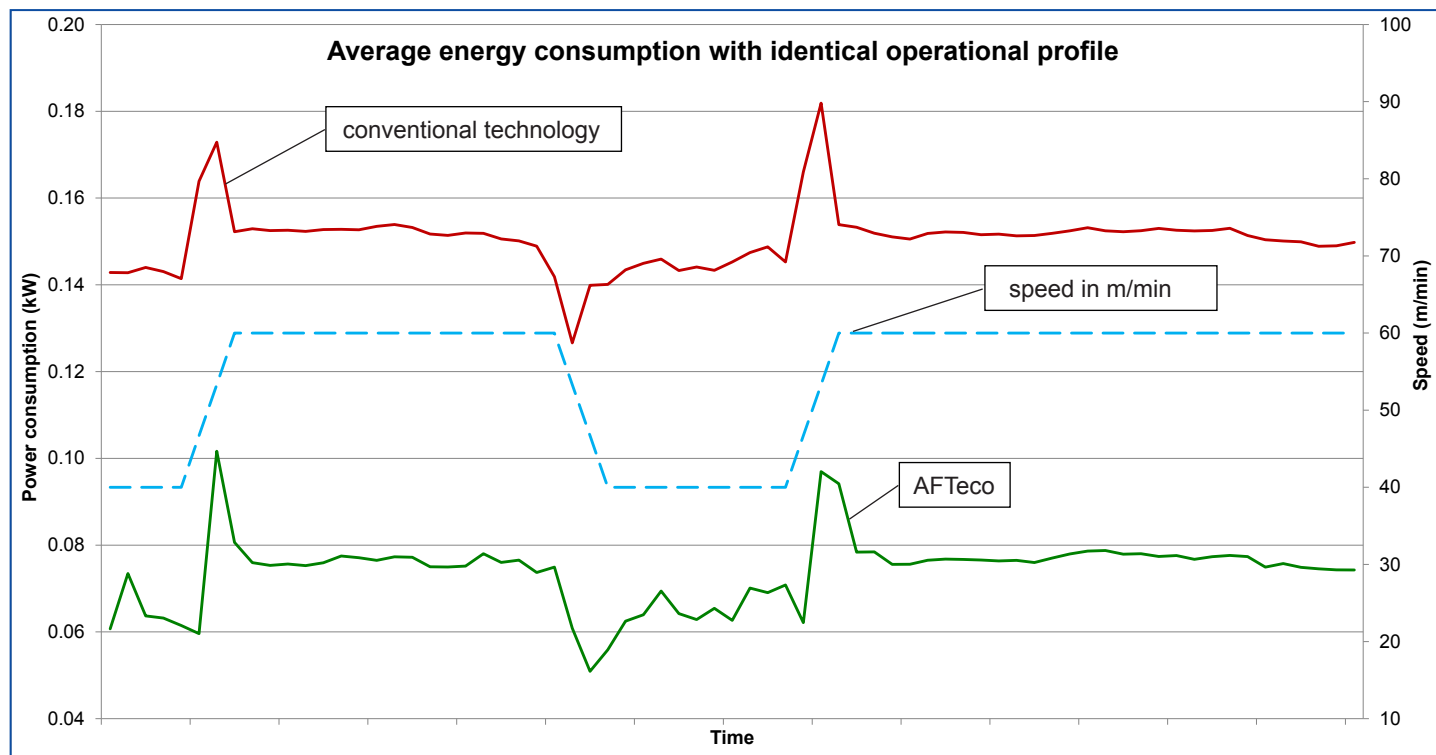
The AFTeco motor for the Light-EMS 200-2 consists of a gearless permanent magnet synchrony motor combined with a special fitted control box. This new drive technology generates energy savings of up to 50% compared to conventional drive technologies. Because it is so compact it also lessens the maintenance requirements immensely.

Advantages of AFTeco drive:

- ▶ Covering of the entire load and speed range of Light-EMS 200-2
- ▶ Almost constant torque over the entire speed range - very efficient at high speeds - very slow speeds possible
- ▶ High effective power due to compact gearless motors
- ▶ About 2/3 weight reduction compared to conventional drive technology
- ▶ Mixed operation in systems with conventional technology possible
- ▶ Reduction of operating costs due to lower energy consumption and lower maintenance costs



The low energy consumption was proven under real conditions. The power consumption of the conventional drive concept and the AFTeco drive concept were measured with different speeds and different loads. The following graphical representation shows that the AFTeco concept needs about 50% less energy. As you can see, the AFTeco concept shows besides the mentioned advantages with maintenance, size and accomplished requirements also advantages for your wallet and the environment.



Cost comparison:

Technique	Average consumption	Annual consumption	Cost of power p.a.
Asynchronous motor	0.131 kWh	461.4 kWh	\$ 41.53
AFTeco	0.060 kWh	209.7 kWh	\$ 18.87
Savings	0.071 kWh	251.7 kWh	\$ 22.66

The cost comparison is based on the following assumptions:

1 carrier, 220 days/year with two shifts, mixed operating mode (20% at 60 m/min, 70% at 40 m/min, 10% at standstill), loads between 0 and 50 kg, cost for power \$ 0.09/kWh

"If you have an EMS system existing of 400-600 carriers equipped with AFTeco drive technology, your annual energy savings would be about \$ 9,000 - \$ 13,600. This could be a saving potential for companies of all sizes."

Heiko Hofmann, CEO AFT-Group